

TANDY COMPUTER

CAT. NO. 98-2010

whiz kids

ALEC and SHANNA

STARRING IN...

THE ANSWER TO A RIDDLE



COMPLIMENTS OF
Radio Shack
A Division of Tandy Corporation

**PICK UP
CHIC
STONE**

The Tandy Color Computer 3

More colors, superb graphics, greater power at a low price

With Radio Shack's Color Computer 3 (26-333-1, \$219.95), you can start computing right away—even if you've never used a computer before! Simply attach it to your TV, and you're ready to start.

Not only does the 128K Color Computer 3 offer twice the memory, twice the speed, and even better graphics than our popular Color Computer 2, it's also compatible with the Tandy hardware accessories and software designed for the popular Color Computer 2—you may never outgrow it!

You can choose from a wide selection of educational software, including programs designed to improve your math skills, history, spelling, vocabulary and

typing skills. The Color Computer 3 can even be used for writing your own sophisticated programs—simply plug in an instant-loading Program Pak™ for fun and games. You can even add an optional modem to access educational databases over the phone. Enjoy services such as an electronic encyclopedia—great for homework, and fun to use for the whole family.

The Color Computer 3 is available at more than 7,000 Radio Shack stores, Computer Centers and participating dealers nationwide. See it today!

Price applies at Radio Shack Computer Centers and participating stores and dealers. Monitor, disk drives, software and monitor peripherals sold separately.

Radio Shack® The Technology Store™

A DIVISION OF TANDY CORPORATION



ALEC
AND
SHANNA

TANDY COMPUTER

Whiz Kids

STARRING IN:

THE
ANSWER
TO A
RIDDLE

A
REMOTE
PIRSTRIP
JUST
BEFORE
DAWN...

A
MYSTERIOUS
FLIGHT IS
ABOUT TO
BEGIN...

MAN, YOU
OUGHT TO
TELL THOSE
GUYS TO
HURRY!

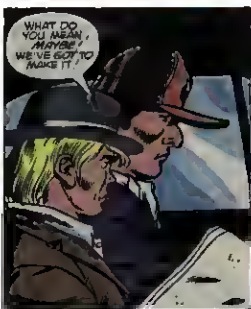
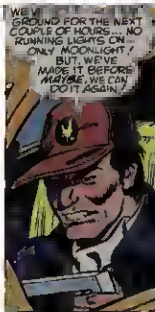
YEAH, YOU'RE RIGHT!
HEY, YOU GUYS, HURRY WITH
THAT FUEL! WE'VE GOT TO
GET OUT OF HERE BEFORE
DAYLIGHT!

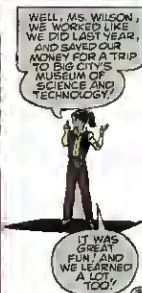
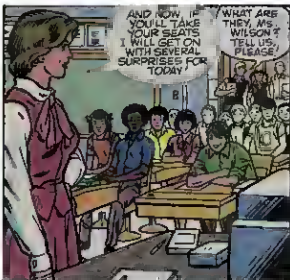
WE'RE
THROUGH!

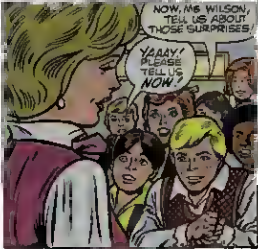
YOU'RE
READY FOR
TAKEOFF!

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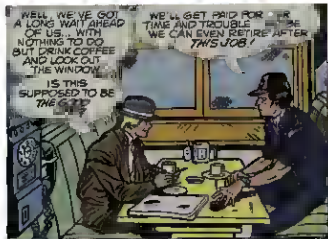






BACK TO THE MYSTERY AIRPLANE

HERE WE ARE
AT LOST HORIZON!
NOT EVEN ON A
MAP... AND THAT'S
THE BEST PART!



BACK TO MS. WILSON'S CLASSROOM... AND THE FIRST SURPRISE...

ARE YOU READY FOR THE FIRST SURPRISE?

READY!
YAAAH!

OKAY, WE'LL FIND IT IN THE LIBRARY! PLEASE LEAVE THE ROOM QUIETLY... NO RUNNING.

I CAN'T WAIT TO FIND OUT WHAT COULD BE A SURPRISE IN THE LIBRARY!

ME, TOO!

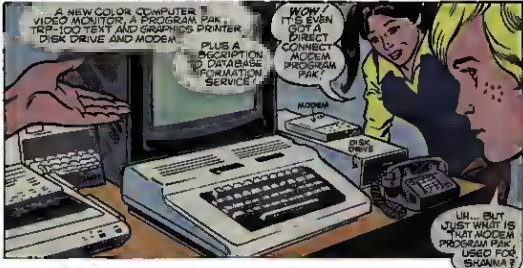
I'M MS. YOUNG, THE LIBRARIAN FOR OUR SCHOOL, AND I HAVE A SUPER SURPRISE FOR YOU UNDER THIS CLOTH!

PLEASE, UNCOVER IT NOW, MS. YOUNG.

THE SUSPENSE IS TOO MUCH! HURRY!

BET I CAN GUESS WHAT IT IS, MS. YOUNG.

NO TIME FOR GUESSING GAMES, ALEC. THIS WILL BRING US AN ELECTRONIC ENCYCLOPEDIA... SURPRISE NUMBER ONE--



A NEW COLOR COMPUTER,
VIDEO MONITOR, A PROGRAM PAK,
TRP-100 TEXT AND GRAPHICS PRINTER,
DISK DRIVE AND MODEM.

PLUS A
SUBSCRIPTION
TO DATABASE
FORMATION
SERVICE!

WOW!
IT'S EVEN
GOT A
DIRECT
CONNECT
MODEM
PROGRAM
PAK!

UH... BUT
JUST WHAT IS
THAT MODEM
PROGRAM PAK
USED FOR,
SHANNA?



FIRST,
HOW IS THE
COLOR COMPUTER #3
GOING TO BRING US
AN ELECTRONIC
ENCYCLOPEDIA?

YEAH!
HOW ABOUT
THAT?



ALEC, THE
MODEM LETS
YOU CONNECT
YOUR
COMPUTER
BY PHONE TO A
SUBSCRIPTION
SERVICE
HAVING AN
INFORMATION
DATABASE!

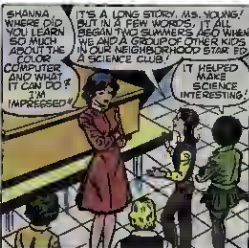
OKAY,
BUT WHAT
ABOUT
DATABASES?

SHANNA ALSO EXPLAIN HOW WE CAN HAVE AN ELECTRONIC ENCYCLOPEDIA VIA A DATABASE!

WELL, A DATABASE CAN BE WHAT IS CALLED INFORMATION RETRIEVAL SERVICES, WHICH OFFER AN ELECTRONIC ENCYCLOPEDIA, NEWSPAPER NEWS, MAGAZINE ARTICLES, WEATHER, SPORTS NEWS, AND OTHER SUBJECTS THAT YOUR COMPUTER CAN TAP INTO OVER A TELEPHONE LINE!

WOW, TELL US MORE ABOUT THE ELECTRONIC ENCYCLOPEDIA!

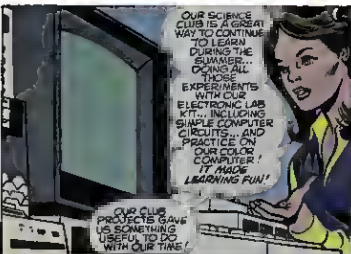
IT'S FUN TO USE! IT'S TOPICS LIKE SCIENCE, HEALTH, GEOGRAPHY, TRAVEL, AND OTHER INTERESTING THINGS! BEST OF ALL, IT'S UPDATED EVERY FEW MONTHS, AND A YEAR'S SUBSCRIPTION DOESN'T COST VERY MUCH!



SHANNA, WHERE DID YOU LEARN SO MUCH ABOUT THE COLOR COMPUTER AND WHAT IT CAN DO? I'M IMPRESSED!

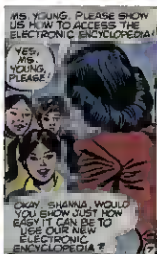
IT'S A LONG STORY, MS. YOUNG! BUT IN A FEW WORDS, IT ALL BEGAN TWO SUMMERS AGO WHEN WE AND A GROUP OF OTHER KIDS IN OUR NEIGHBORHOOD STARTED A SCIENCE CLUB!

IT HELPED MAKE SCIENCE INTERESTING!



OUR SCIENCE CLUB IS A GREAT WAY TO CONTINUE TO LEARN DURING THE SUMMER... DOING ALL THOSE EXPERIMENTS WITH OUR ELECTRONIC LAB KIT... INCLUDING SIMPLE COMPUTER CIRCUITS... AND PRACTICE ON OUR COLOR COMPUTER! IT MADE LEARNING FUN!

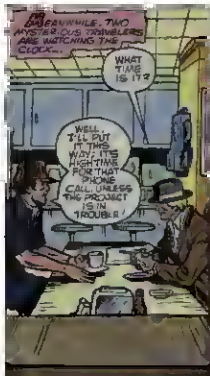
OUR CLUB PROJECTS GAVE US SOMETHING USEFUL TO DO WITH OUR TIME!



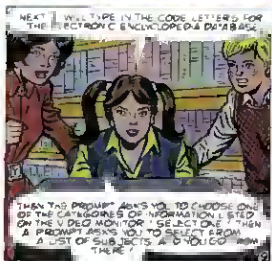
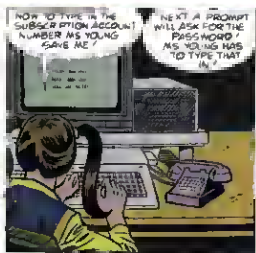
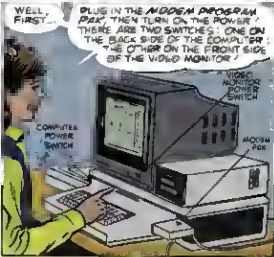
MS. YOUNG, PLEASE SHOW US HOW TO ACCESS THE ELECTRONIC ENCYCLOPEDIA!

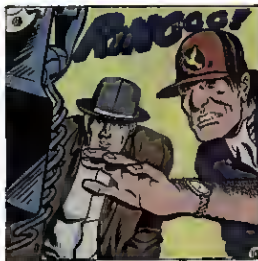
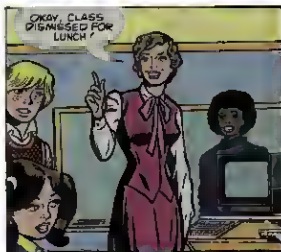
YES, MS. YOUNG, PLEASE!

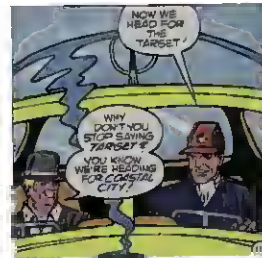
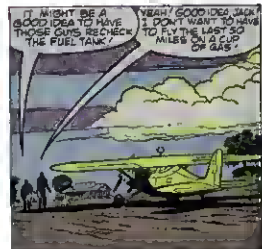
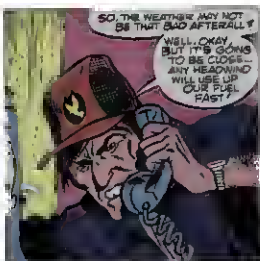
OKAY, SHANNA, WOULD YOU SHOW JUST HOW EASY IT CAN BE TO USE OUR NEW ELECTRONIC ENCYCLOPEDIA?

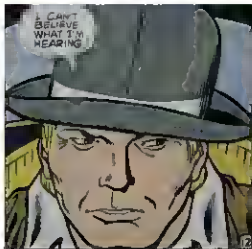
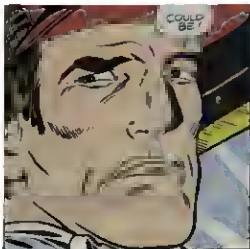
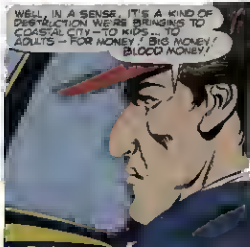


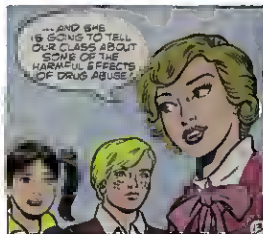
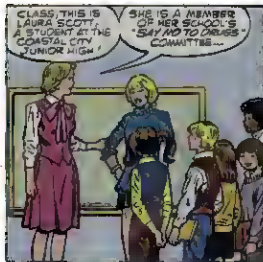
MEANWHILE... AT THE SCHOOL LIBRARY!

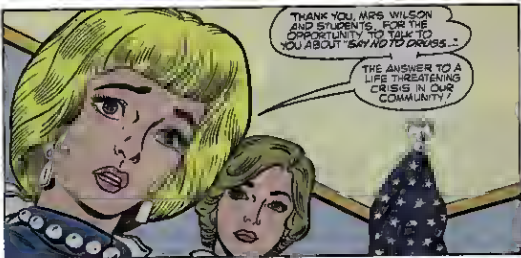






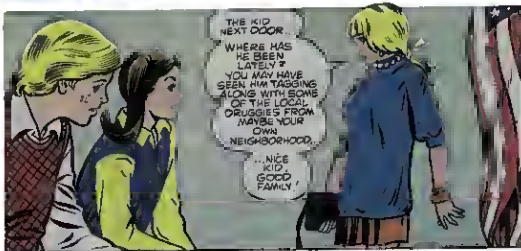






THANK YOU, MRS. WILSON AND STUDENTS FOR THE OPPORTUNITY TO TALK TO YOU ABOUT "SAY NO TO DRUGS..."

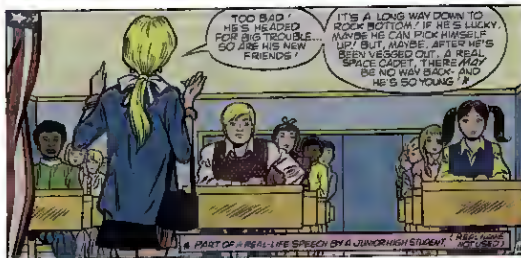
THE ANSWER TO A LIFE THREATENING CRISIS IN OUR COMMUNITY!



THE KID NEXT DOOR...

WHERE HAS HE BEEN LATELY? YOU MAY HAVE SEEN HIM TAGGING ALONG WITH SOME OF THE LOCAL DRUGGIES FROM MAYBE YOUR OWN NEIGHBORHOOD.

...NICE KID, GOOD FAMILY!



TOO BAD! HE'S HEADED FOR BIG TROUBLE... SO ARE HIS NEW FRIENDS!

IT'S A LONG WAY DOWN TO ROCK BOTTOM! IF HE'S LUCKY, MAYBE HE CAN PICK HIMSELF UP! BUT, MAYBE, AFTER HE'S BEEN VEGGED OUT, A REAL SPACE CADET, THERE MAY BE NO WAY BACK- AND HE'S SO YOUNG!

A PART OF A REAL-LIFE SPEECH BY A JUNIOR-HIGH STUDENT. (NICK NAME NOT USED)

I'M SURE YOU'VE ALL HEARD THE BASIC FACTS ON MARIJUANA, HEROIN, AND COCAINE — GETTING BURNT OUT FROM SMOKING POT OR INJECTING HEROIN SEVERAL TIMES A DAY...

... ALSO THAT SNIFFING COCAINE CAN SEVERLY DAMAGE, OR RUIN THE MEMBRANES OF THE NOSE!



THEN, THERE'S ANOTHER FRIGHTENING DRUG, PCP ALSO KNOWN AS ANGEL DUST WHICH IS AN HALLUCINOGEN! TOO MUCH OF THIS DRUG CAN CAUSE A USER TO GO INTO A COMA, OR IT CAN EVEN LEAD TO DEATH!

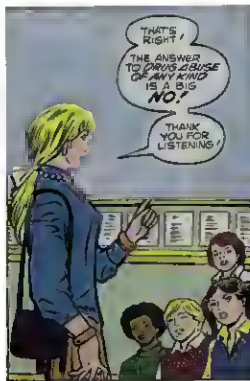
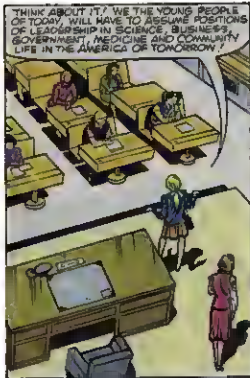
IT IS SAID THAT SOME USERS WERE BELIEVED TO HAVE DROWNED IN WATER, BECAUSE, IN THEIR CONFUSION, THEY DIDN'T KNOW WHICH WAY IS UP... AND THAT SOME HAVE EVEN DIED IN FIRES, BECAUSE THEY HAD BECOME INSENSITIVE TO THE PAIN OF BURNING!

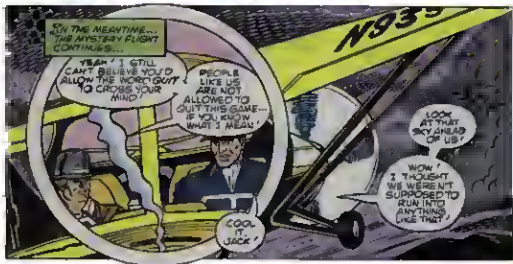
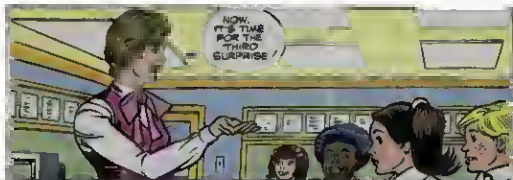


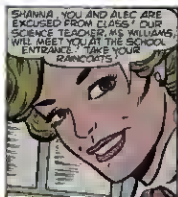
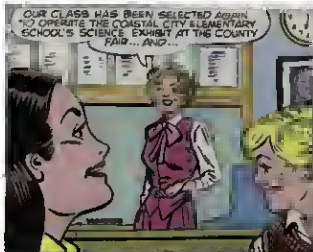
DO YOU KNOW WHO BENEFITS MOST FROM ALL THE HUMAN SUFFERING FROM DRUG ABUSE? ILLEGAL DRUG CARS... DEALERS, AND THE SAUGGLERS! IT'S THE WAY THEY HAVE MONEY TO LIVE IN POSH SUBURBAN NEIGHBORHOODS... A LIFE OF LUXURY... WITH NOT A THOUGHT FOR THE LIVES THEY'VE RUINED, OR THE DEATHS THEY'VE CAUSED!

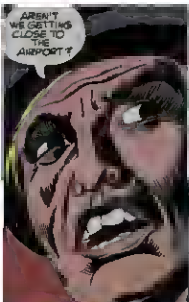


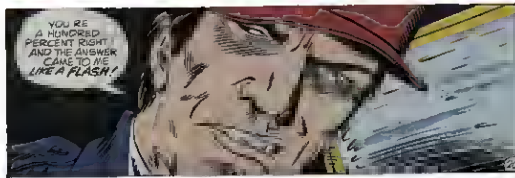
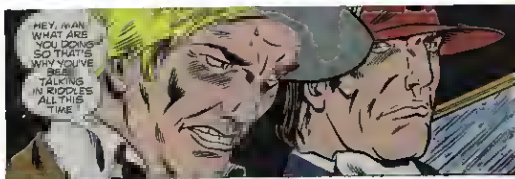
EVERY TIME A USER BUYS ILLEGAL DRUGS... THE MONEY KEEPS THE DEALERS AND SAUGGLERS LIVING IN EVEN GREATER LUXURY!

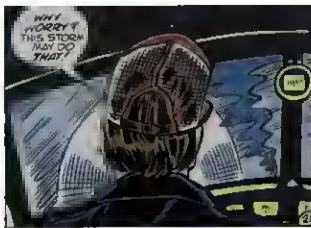
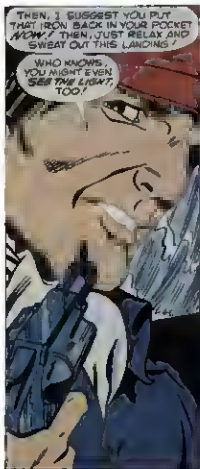
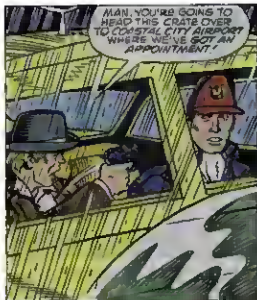


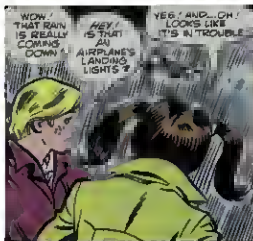
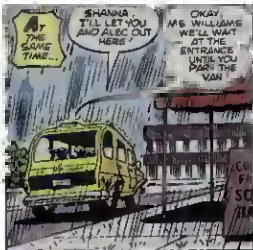


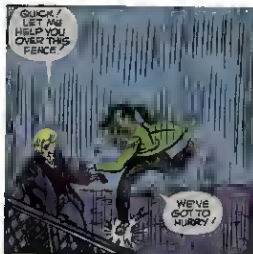


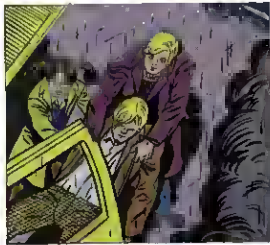
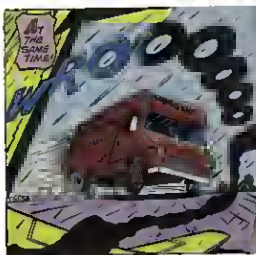




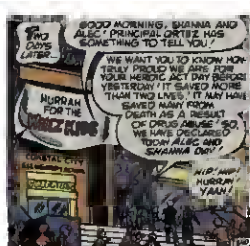
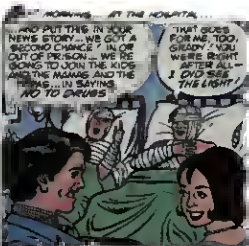
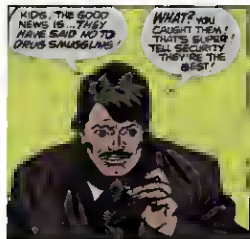












STUDENT'S GUIDE TO COMPUTER LANGUAGE

- BACK-UP DISKETTE** A "Safe Copy" made from the original diskette and kept in case of damage or destruction of data on the original diskette.
- BASIC** Beginner's All-purpose Symbolic Instruction Code, a widely-used programming language.
- BINARY** A numbering system using only two digits, 0 and 1.
- BIT** The smallest unit a computer circuit can recognize.
- BOOT UP** To turn on a computer system (including all peripherals) and load an operating system or program.
- BREAK** To stop the execution of a program by pressing the key **BREAK** or by typing the word "STOP."
- BYTE** A combination of 8 consecutive binary digits.
- CASSETTE** An information storage medium composed of magnetic tape on a spool enclosed in plastic case.
- COMMAND** A function the computer performs upon your instructions.
- CONTROL** That section of a computer which directs the activity of all other sections.
- CURSOR** A flashing, white box on the screen which marks the location of the next letter or numeral.
- DATA** The information processed by a computer.
- DEFAULT** An action or value taken by a program if you do not specify which is to be used.
- DIRECTORY** A listing of the contents stored on a disk.
- DISK** A magnetic recording device for storage of data.
- EDIT** To change existing information.
- ENTER** The key on a keyboard that is pressed to enter data into the computer.
- K or KILOBYTE** The letter symbol for 1024 bytes.
- MEMORY** The section of a computer used for storage of information (also called data).
- MENU** A list of questions, or prompts, the answers to which determine how the computer will execute an instruction.
- PASSWORD** A file security option of up to 8 alphanumeric characters.
- POWER UP** To turn on the computer system (including all peripheral equipment).
- PROGRAM** The instructions that tell a computer how to process and deliver its answer or information.
- PROMPTS** Questions displayed on the screen which enable you to complete necessary instruction to the computer.
- SCRIPT** A program used in word-processing

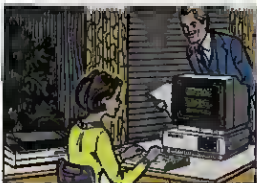
the computers!

NATIONWIDE, IN CROWDED AIR TERMINALS COMPUTERS ARE SPEEDING PROCESSING OF RESERVATIONS AND TICKETS



COMPUTERS LIKE THE TANDY 1000 ARE BEING USED AS TEACHING AIDS TO BUILD SKILLS IN MATH AND SCIENCE...

IN REDUCING TIME AND PAPERWORK FOR SMALL BUSINESS OPERATIONS...



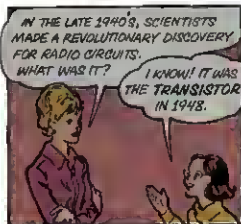
TO ACCESS INFORMATION SERVICES LIKE COMPU-SERVE - AN ELECTRONIC ENCYCLOPEDIA AT YOUR FINGERTIPS. GREAT FOR HELPING WITH HOME STUDY ASSIGNMENTS!

COMPUTERS ALSO AID IN TODAY'S SCIENCE RESEARCH, METEOROLOGY (WEATHER FORECASTING) AND THEY CAN EVEN BE PROGRAMMED TO OPERATE MACHINES LIKE ROBOTS, USED IN MANY MANUFACTURING PLANTS.



TANDY bits & bytes of Computer History

TODAY, MICROCOMPUTERS (MEANING TINY IN SIZE) ARE RESHAPING OUR WAY OF LIFE. THE COMPUTER AGE IS TRULY HERE. BUT, IT REALLY BEGAN ALMOST **200** YEARS AGO!



THEIR RESEARCH WAS DONE AT WORLD FAMOUS BELL TELEPHONE LABS. MANY TIMES SMALLER THAN RADIO TUBES, THE TRANSISTOR MADE POSSIBLE POCKET RADIOS, CALCULATORS, AND SMALLER STEREO SETS.



ON 1801, JOSEPH MARIE JACQUARD, CALLED THE "FATHER OF THE COMPUTER", WAS HONORED BY THE EXPOSITION IN PARIS FOR A WEAVING LOOM WHICH USED PROGRAMMED, PUNCHED, CARDS TO CONTROL THE WEAVING OF COMPLEX PATTERNS FROM THREAD.



YES, THE NOBEL PRIZE IN PHYSICS WAS SPLIT BETWEEN THREE AMERICANS... FOR INVENTING THE TRANSISTOR: JOHN BARDEEN, WILLIAM SHOCKLEY, AND WALTER BRATTAIN.



NEXT CAME THE TINY IC (INTEGRATED CIRCUIT) USED IN TODAY'S RADIOS, STEREO HI-FI SETS, AND POWERFUL DESK-SIZE HOME AND BUSINESS COMPUTERS LIKE THE TANDY 1000.

COMPUTERS and ASTRONOMY...

THE WORLD'S FIRST ALL ELECTRONIC COMPUTERS WERE MADE IN THE UNITED STATES AT THE END OF WORLD WAR II. THESE COMPUTERS CONTAINED THOUSANDS OF VACUUM (RADIO) TUBES, RESISTORS, CAPACITORS AND SWITCHES — AND REQUIRED A ROOM-SIZE SPACE! THEY USHERED IN THE **COMPUTER AGE!**



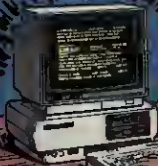
ON THE LATE 1940'S, THE SSEC (SELECTIVE SEQUENCE ELECTRONIC CALCULATOR), WAS USED BY PIONEERING ASTRONOMER WALTER J. ECKERT AND ASSOCIATES TO COMPUTE A NEW EPHEMERIS — CELESTIAL ALMANAC FOR THE OUTER PLANETS JUPITER THROUGH PLUTO. IT REPORTEDLY TOOK 120 HOURS TO PERFORM ALL OF THE CALCULATIONS.*



THESE SAME CALCULATIONS WERE REPORTEDLY PERFORMED BY A TRS-80 MODEL I 1979 DESK-TOP COMPUTER AND PRINTER IN LESS THAN 11 HOURS!

*QUOTED IN PART BY PERMISSION FROM APRIL 1984
SKY & TELESCOPE MAGAZINE

THE ASTRONOMICAL CALCULATIONS MADE BY THE 1979 MODEL I COULD BE PERFORMED EVEN FASTER BY TODAY'S TANDY 1000 MICROCOMPUTER ...RECOGNIZED FOR ITS POWER AND STORAGE CAPACITY IN BUSINESS AND EDUCATIONAL USE.



DISK DRIVE

UNINCIDENTALLY, ESTIMATES SAY THAT IT WOULD HAVE TAKEN ONE PERSON ABOUT 80 YEARS TO DO THE JOB — WITHOUT THE HELP OF A COMPUTER!



THE HISTORY OF COMPUTERS REALLY BEGAN COUNTLESS CENTURIES AGO BECAUSE OUR ANCESTORS HAD A NATURAL CURIOSITY ABOUT THINGS. EACH GENERATION EXPLORED, OBSERVED, DISCOVERED, INVENTED AND PASSED ALONG TO THE NEXT GENERATION THEIR CONTRIBUTION TO THE BODY OF KNOWLEDGE WE CALL SCIENCE ...AND TO A BETTER WAY OF LIFE WE CALL FREEDOM!



**IT IS MANKIND'S NATURE
TO LOOK BEYOND THE HORIZON...
TO EXPLORE NEW FRONTIERS!**



**THAT'S WHY THE PILGRIMS CAME TO
AMERICA IN 1620—SEARCHING FOR
RELIGIOUS FREEDOM AND THE RIGHT
TO GOVERNMENT BY THE PEOPLE.**



**...THAT'S WHY
IMMIGRANTS AND DESCENDANTS
OF IMMIGRANTS JOINED HANDS TO BUILD
AMERICA...A NATION FOUNDED ON THE
RIGHT TO INDIVIDUAL LIBERTY, AND THE
OPPORTUNITY FOR ACHIEVEMENT—
THE GOLDEN KEYS THAT BROUGHT
AMERICA FROM A "DEVELOPING
NATION" TO A WORLD LEADER
IN AGRICULTURE, SCIENCE
AND BUSINESS...**



**THE GOLDEN KEYS THAT OPENED
THE DOORS FOR THE SCIENCE EXPLORERS
OF THE UNITED STATES OF AMERICA—
PEOPLE LIKE NIKOLA TESLA, SAMUEL MORSE,
ALEXANDER BELL, THOMAS EDISON,
JOSEPH HENRY, BENJAMIN FRANKLIN,
ROYAL HOUSE, EDWIN ARMSTRONG,
JOSEPH TYROCKNER, LEE DEFOREST, AND
THE INVENTORS OF THE TRANSISTOR—
JOHN BARDEEN, WALTER BRATTAIN,
AND WILLIAM SHOCKLEY, AND MANY
OTHER GREAT SCIENCE EXPLORERS!**

...DEDICATED PEOPLE WHOSE YEARS OF STUDY AND COUNTLESS HOURS OF TEDIOUS RESEARCH BROUGHT US...

- ★ ALTERNATING CURRENT ELECTRICITY
- ★ TELEPHONE
- ★ RADIO
- ★ STEREO HI-FI
- ★ COLOR TELEVISION
- ★ POCKET CALCULATORS
- ★ VIDEO CASSETTE RECORDING
- ★ POWERFUL DESK-SIZE COMPUTERS
- ★ COMMUNICATION SATELLITES
- ★ MICROWAVE OVENS FOR COOKING
- ★ ELECTRONIC CONTROL AND GUIDANCE SYSTEMS FOR JETS, SHUTTLE SPACECRAFT

...MOST OF THESE GREAT INVENTIONS DEVELOPED WITHIN THE PAST CENTURY (100 YEARS)!

REMEMBER, THE GOLDEN KEYS OPEN ONLY THE DOOR TO ACHIEVEMENT. REMEMBER ALSO, ACHIEVEMENT IS NOT A GIFT... IT'S UP TO YOU TO DO IT YOURSELF!

...AND THAT'S WHY YOU MUST STUDY HARD... LEARN ALL YOU CAN ABOUT MATH, PHYSICS, ELECTRICITY...

...CHEMISTRY AND OTHER SCIENCES... SO THAT YOU CAN GAIN THE KNOWLEDGE IT TAKES TO BE A SCIENCE EXPLORER. IT'S NOT EASY, BUT YOU CAN DO IT!

YEEAAAY!
WE CAN DO IT!

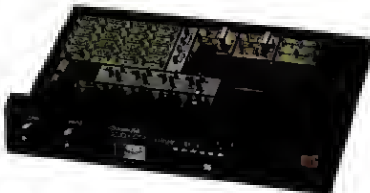


IT WILL BE YOUR TURN TO MAKE A CONTRIBUTION TO SCIENTIFIC KNOWLEDGE THAT CONTINUES PROGRESS WITHOUT ENDANGERING OUR HOME BASE... SPACESHIP EARTH — A CONTRIBUTION THAT ALSO BENEFITS PEOPLE OF OTHER NATIONS.

IT'S GREAT FOR CLASS OR CLUB

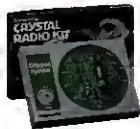
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39⁹⁵

#28-265



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*"Plays
Forever"*

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The World*



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*Broadcast
On AM*



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12⁹⁵

*Pre-Mounted Parts in
Sturdy Molded Case*



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